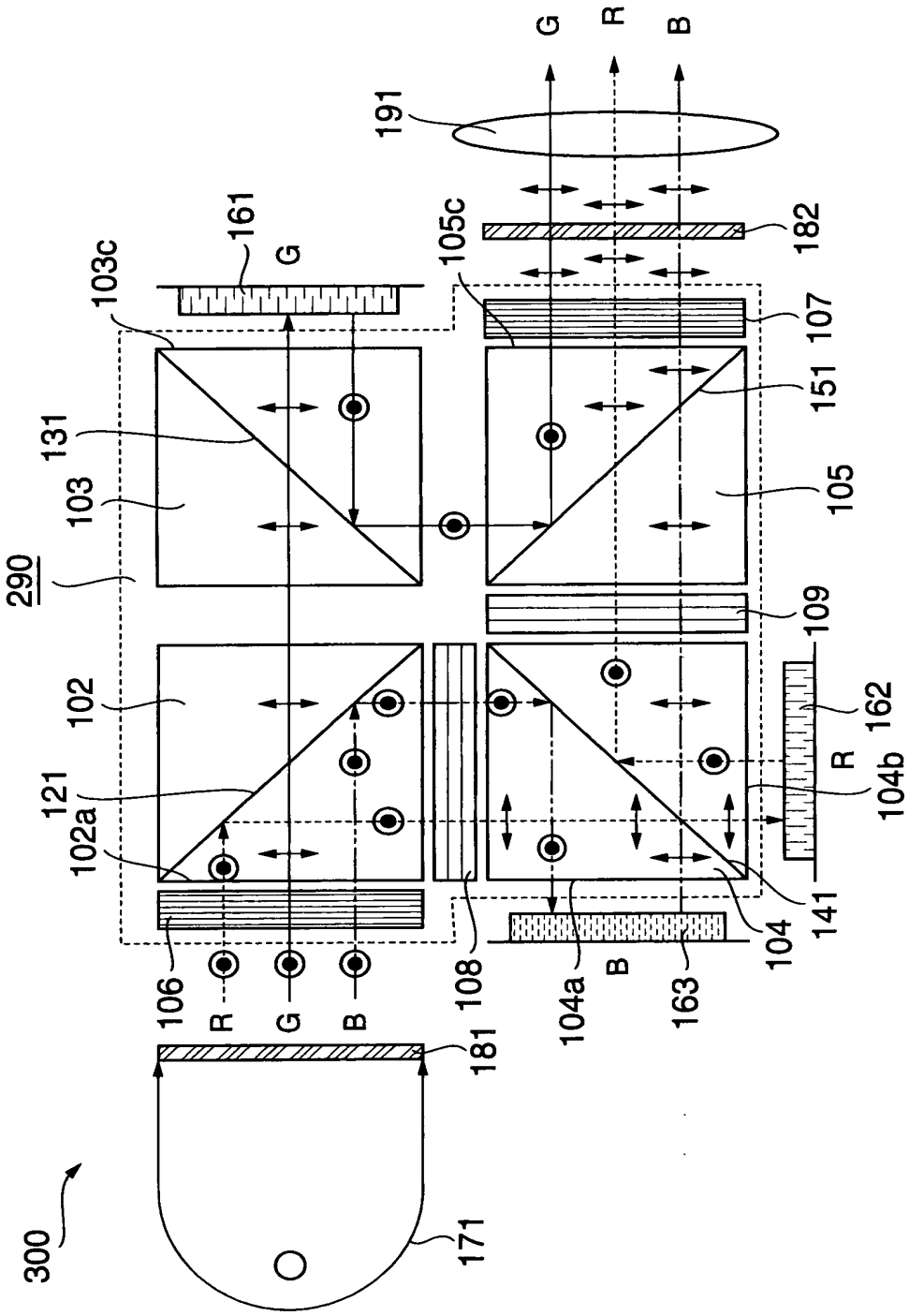


FIG.1 (RELATED ART)

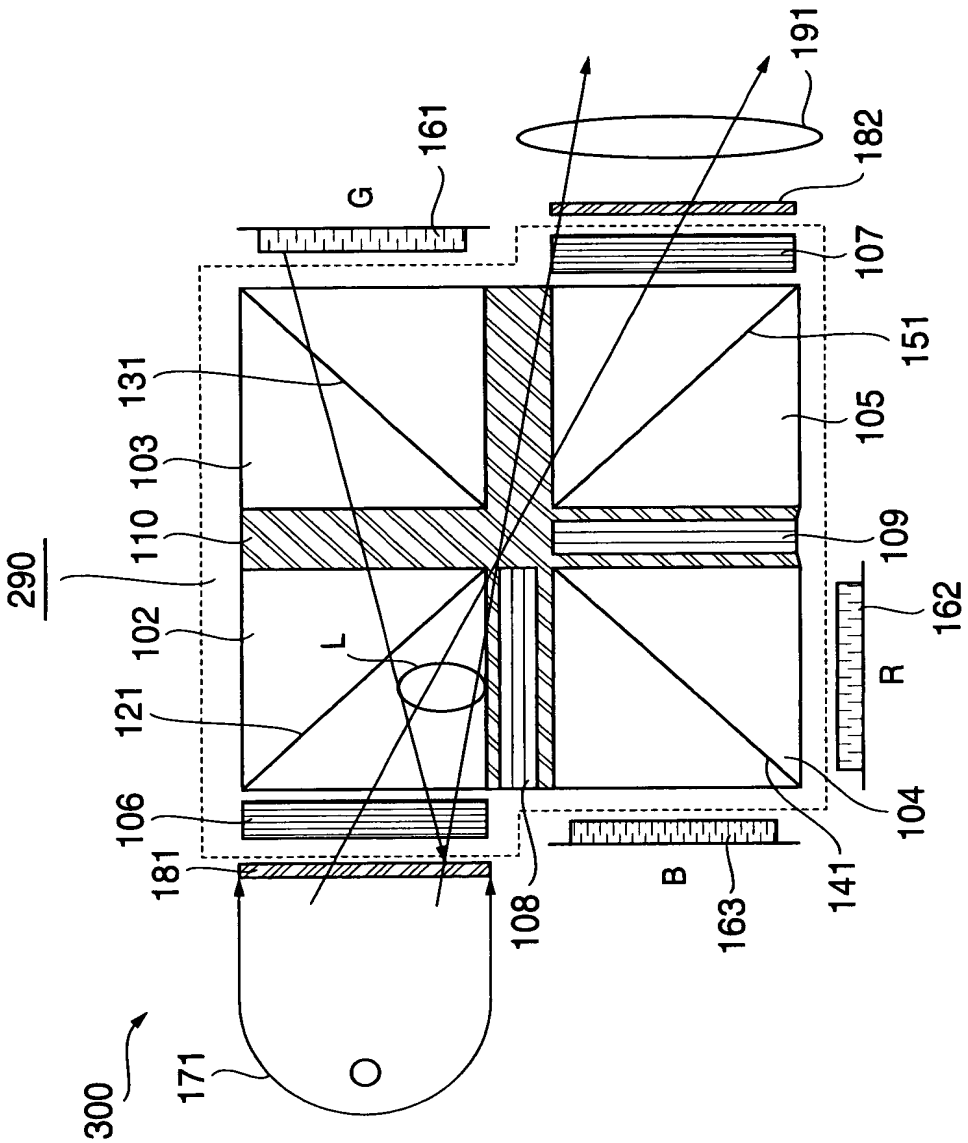


FIG.2 (RELATED ART)

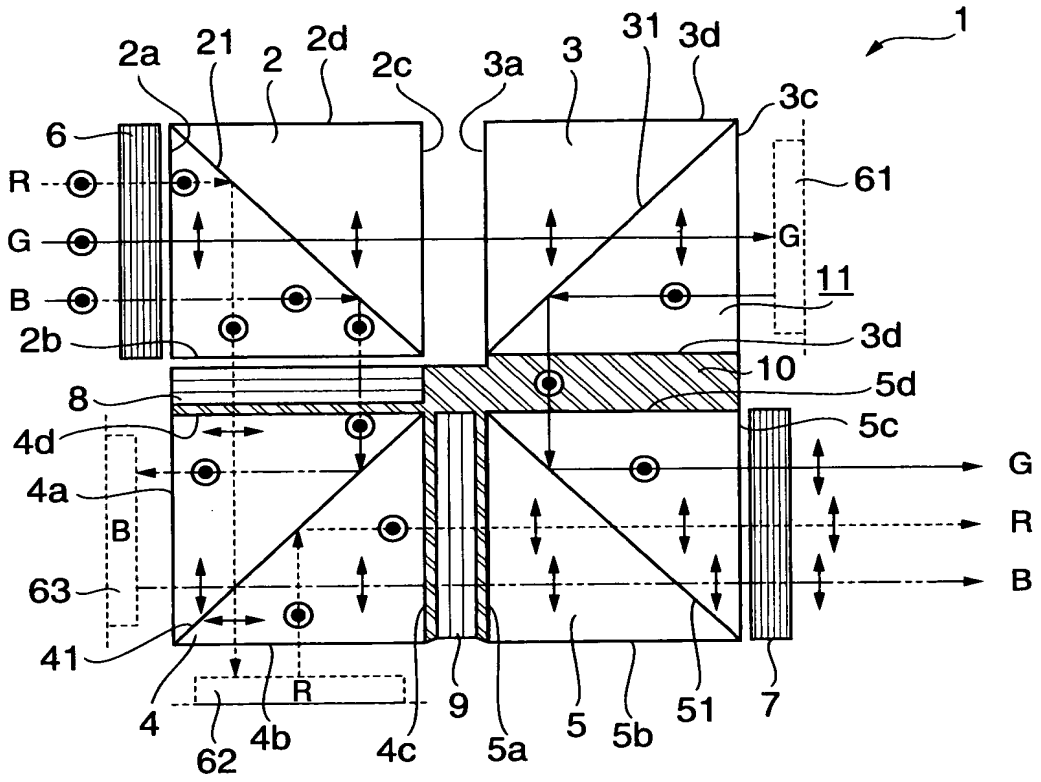

1
2a
21
2
2d
2c
3a
3
31
3d
3c
6
R
G
B
2b
61
G
11
3d
10
5d
8
4d
4a
B
63
41
5c
G
R
B
4
62
4b
R
4c
9
5a
5
5b
51
7

FIG.3

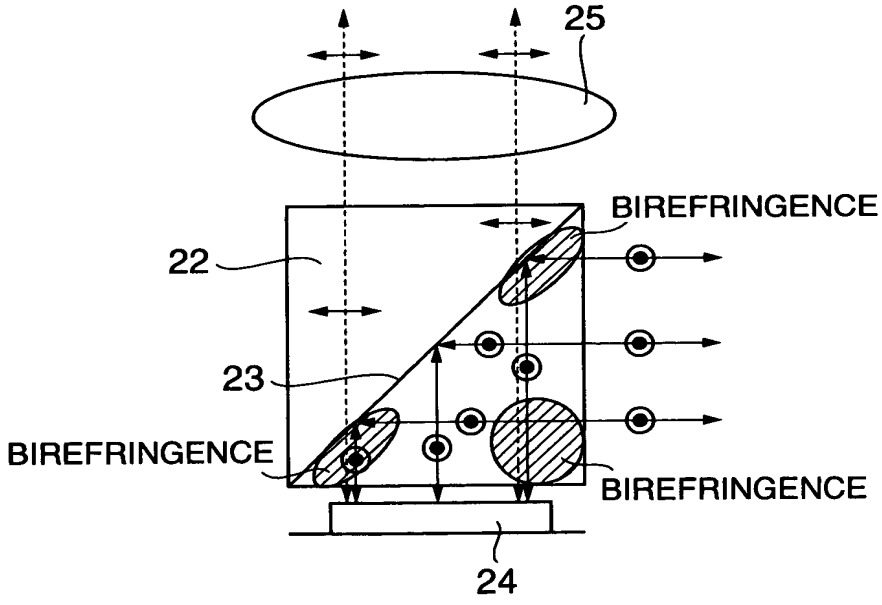

25
BIREFRINGENCE
22
23
BIREFRINGENCE
BIREFRINGENCE
24

FIG.4

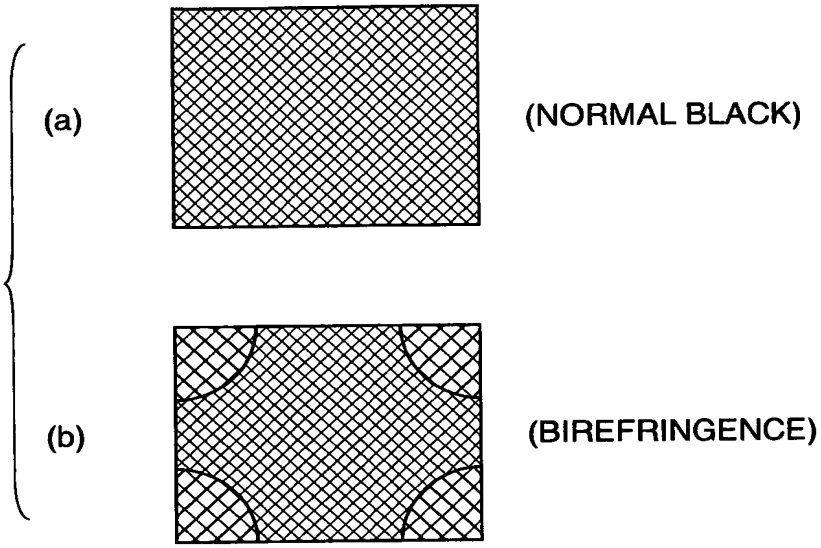

(a)
(NORMAL BLACK)
(b)
(BIREFRINGENCE)

FIG.5

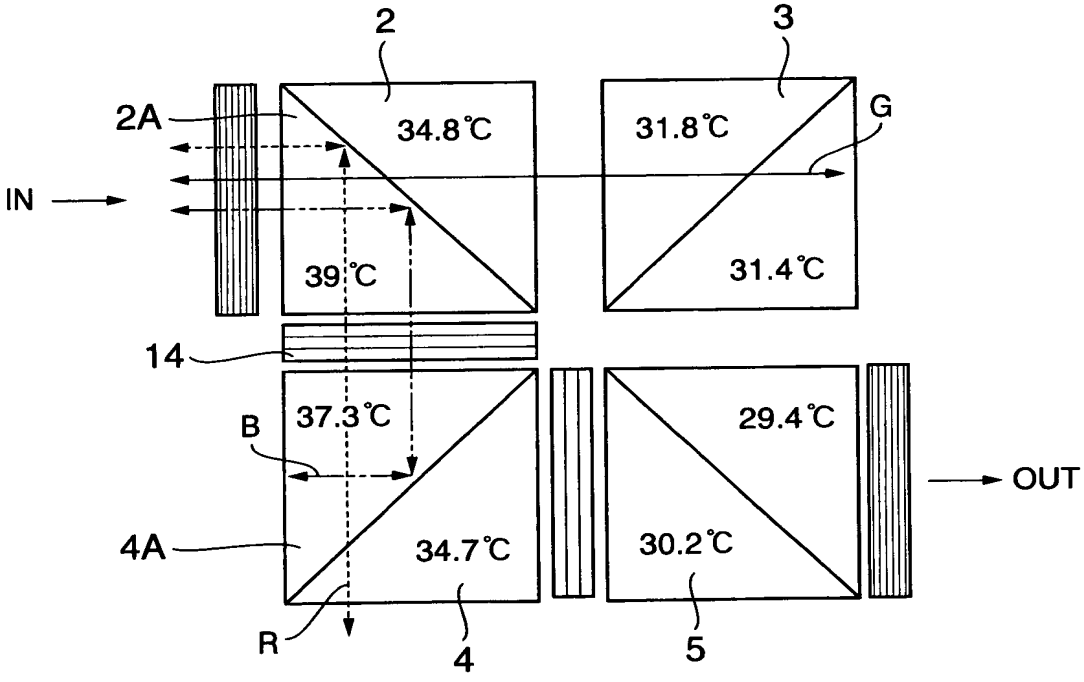

2
3
2A
34.8℃
31.8℃
G
IN
39℃
31.4℃
14
B
37.3℃
29.4℃
OUT
4A
34.7℃
30.2℃
R
4
5

FIG.6

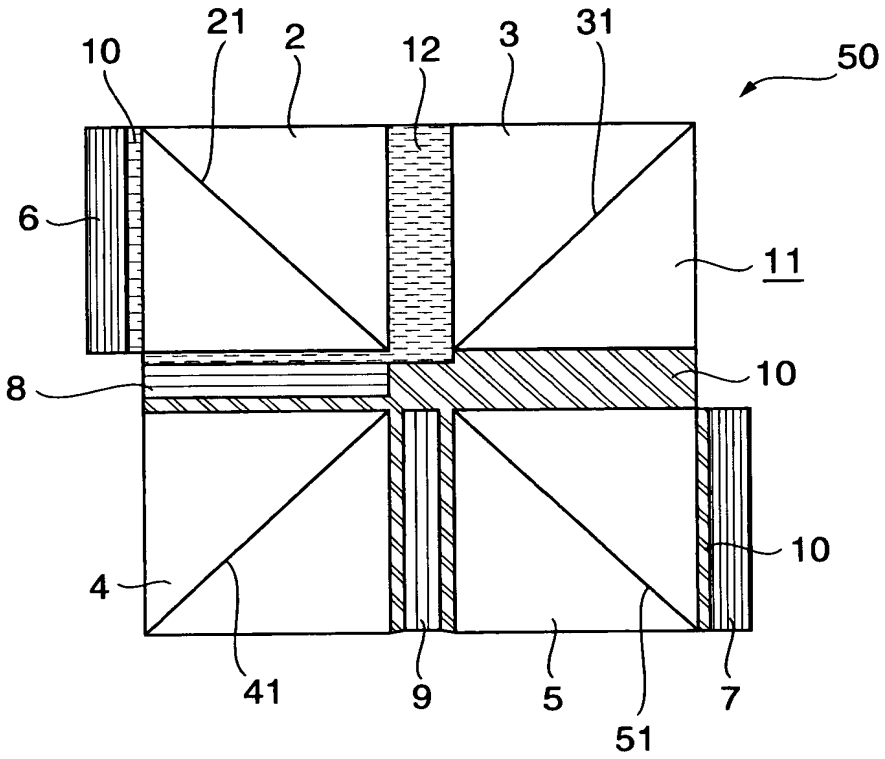

21
2
12
3
31
10
50
6
11
8
10
10
4
41
9
5
51
7

FIG.7

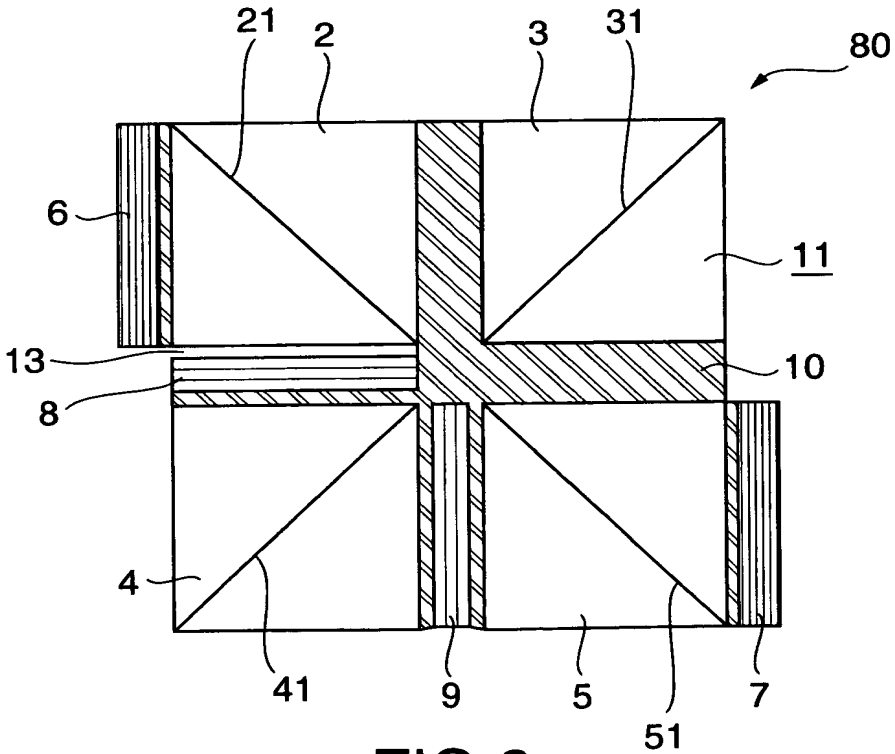

21
2
3
31
80
6
11
13
10
8
4
41
9
5
51
7

FIG.8

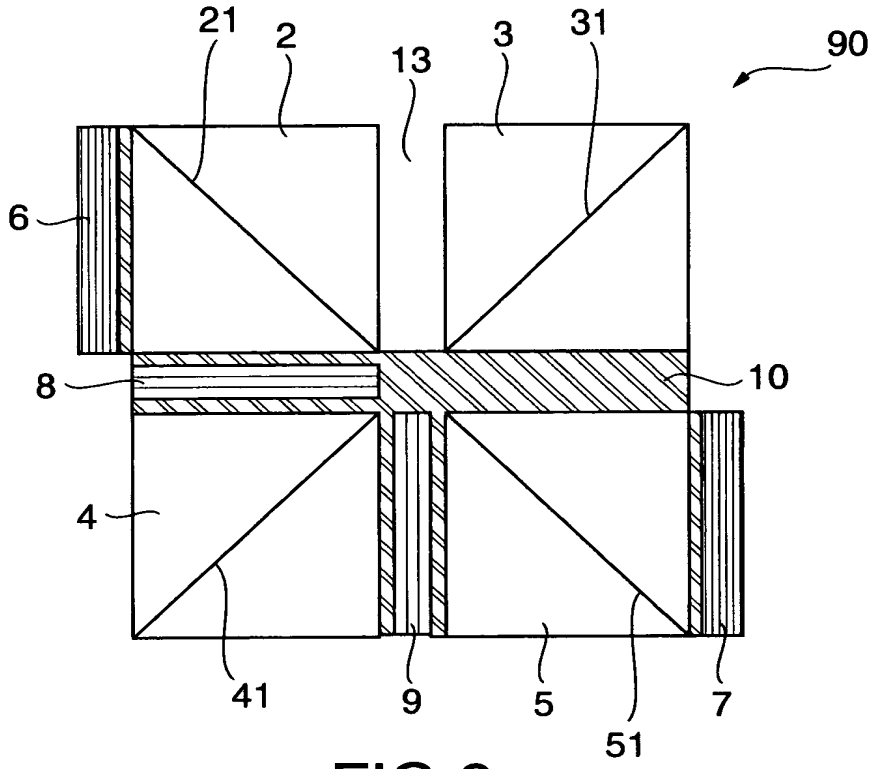


FIG.9

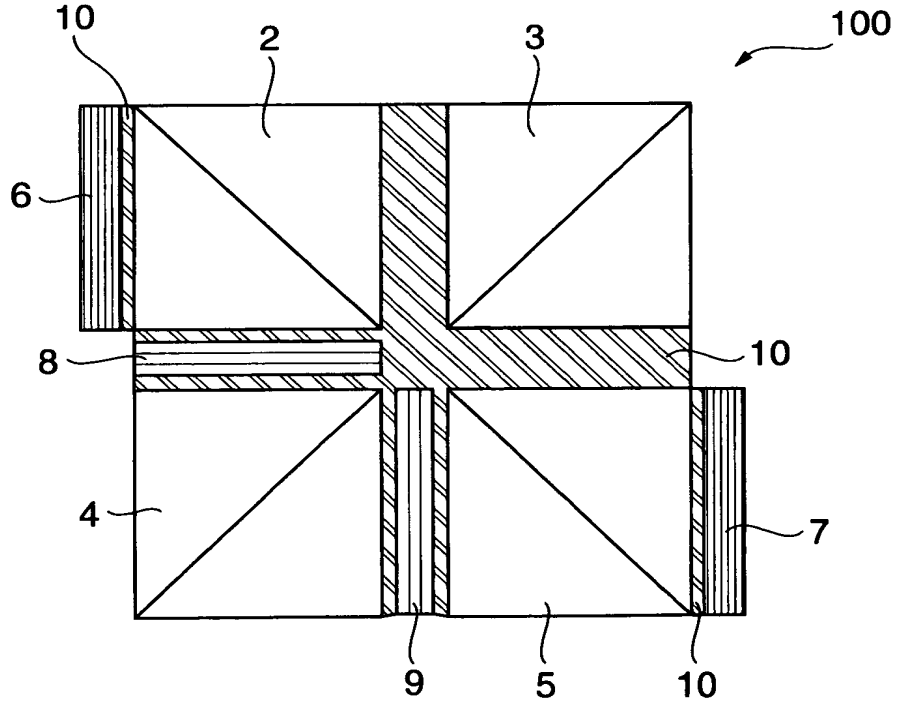


FIG.10

LIGHT SOURCE	SAMPLE	PBS-OPTO-ELASTIC CONSTANT ($10^{-8}cm^2/N$) 1ST	2ND	3RD	4TH	RESULTS
100 W	SAMPLE 1	2.77(BK7)	2.77(BK7)	2.77(BK7)	2.77(BK7)	△
	SAMPLE 2	1.8(SF1)	2.77(BK7)	2.77(BK7)	2.77(BK7)	○
	SAMPLE 3	1.36(SF4)	2.77(BK7)	2.77(BK7)	2.77(BK7)	◎
150 W	SAMPLE 4	2.77(BK7)	2.77(BK7)	2.77(BK7)	2.77(BK7)	×
	SAMPLE 5	1.8(SF1)	1.8(SF1)	1.8(SF1)	2.77(BK7)	△
	SAMPLE 6	1.36(SF4)	1.36(SF4)	1.36(SF4)	2.77(BK7)	○
	SAMPLE 7	1.36(SF4)	1.8(SF1)	1.8(SF1)	2.77(BK7)	○
	SAMPLE 8	0.65(PBH6W)	2.62(SF2)	2.62(SF2)	2.62(SF2)	○
	SAMPLE 9	0.65(PBH6W)	1.8(SF1)	1.8(SF1)	2.62(SF2)	◎
200 W	SAMPLE 10	1.8(SF1)	1.8(SF1)	1.8(SF1)	1.8(SF1)	×
	SAMPLE 11	0.65(PBH6W)	2.62(SF2)	2.62(SF2)	2.62(SF2)	△
	SAMPLE 12	0.65(PBH6W)	1.8(SF1)	1.8(SF1)	2.62(SF2)	○
	SAMPLE 13	0.65(PBH6W)	0.65(PBH6W)	0.65(PBH6W)	2.62(SF2)	◎
	SAMPLE 14	0.03(PBH55)	0.65(PBH6W)	0.65(PBH6W)	0.65(PBH6W)	◎
	SAMPLE 15	0.03(PBH55)	0.03(PBH55)	0.03(PBH55)	2.62(SF2)	◎

FIG.11

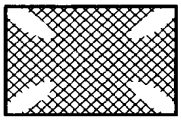
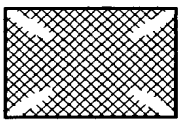
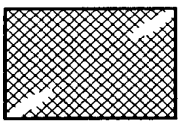
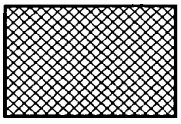
	(GRADE)	(EVALUATION CRITERIA)
	×	USELESS DUE TO MUCH BIREFRINGENCE
	△	USEFUL ONLY FOR LOW-QUALITY PROJECTION DISPLAY
	○	BIREFRINGENCE NOTICED BY CLOSE OBSERVATION
	◎	NO BIREFRINGENCE OBSERVED

FIG.12

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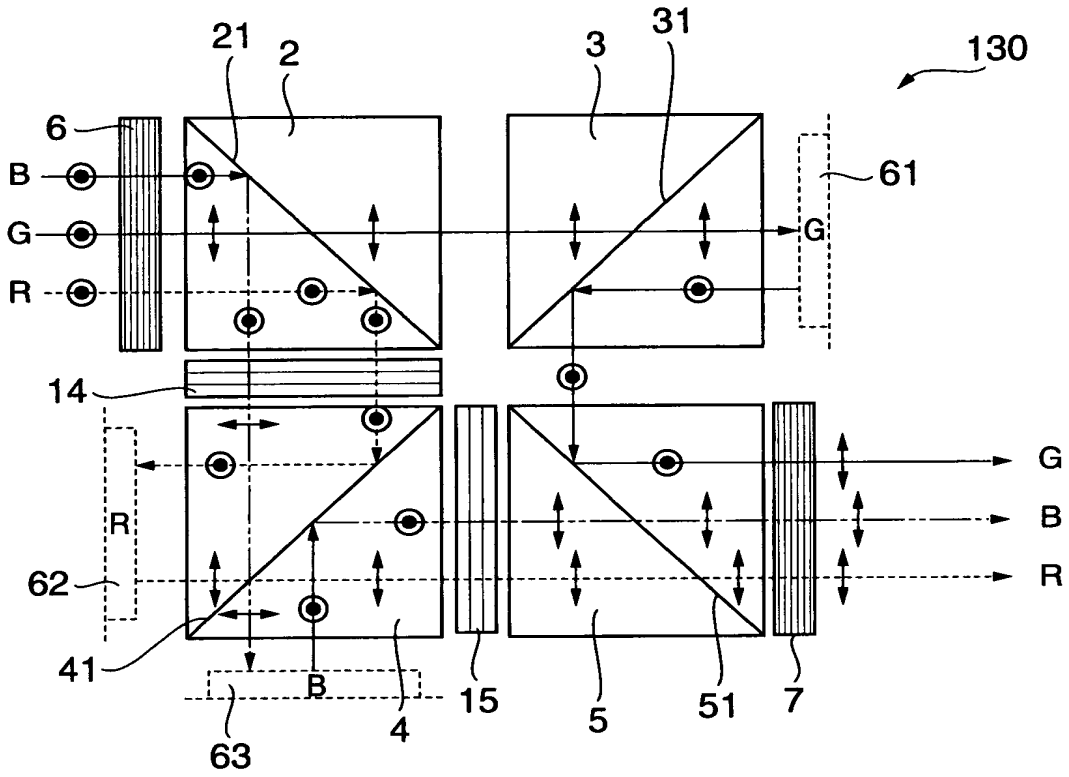

FIG.13

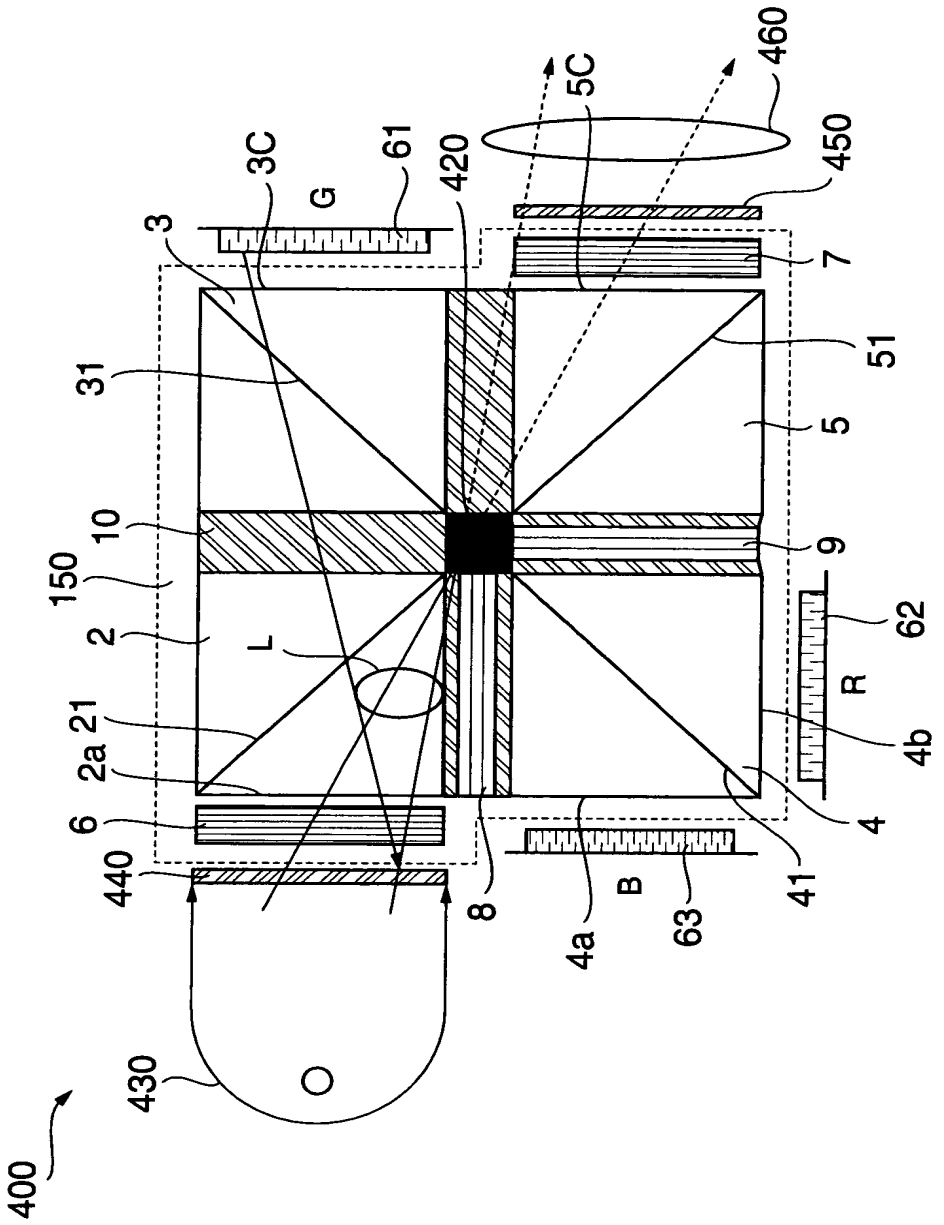
460
5C
450
3C
G
61
420
3
7
51
31
5
10
9
150
62
2
L
R
21
4b
2a
6
4
440
8
41
B
4a
63
430
O
400

FIG.14

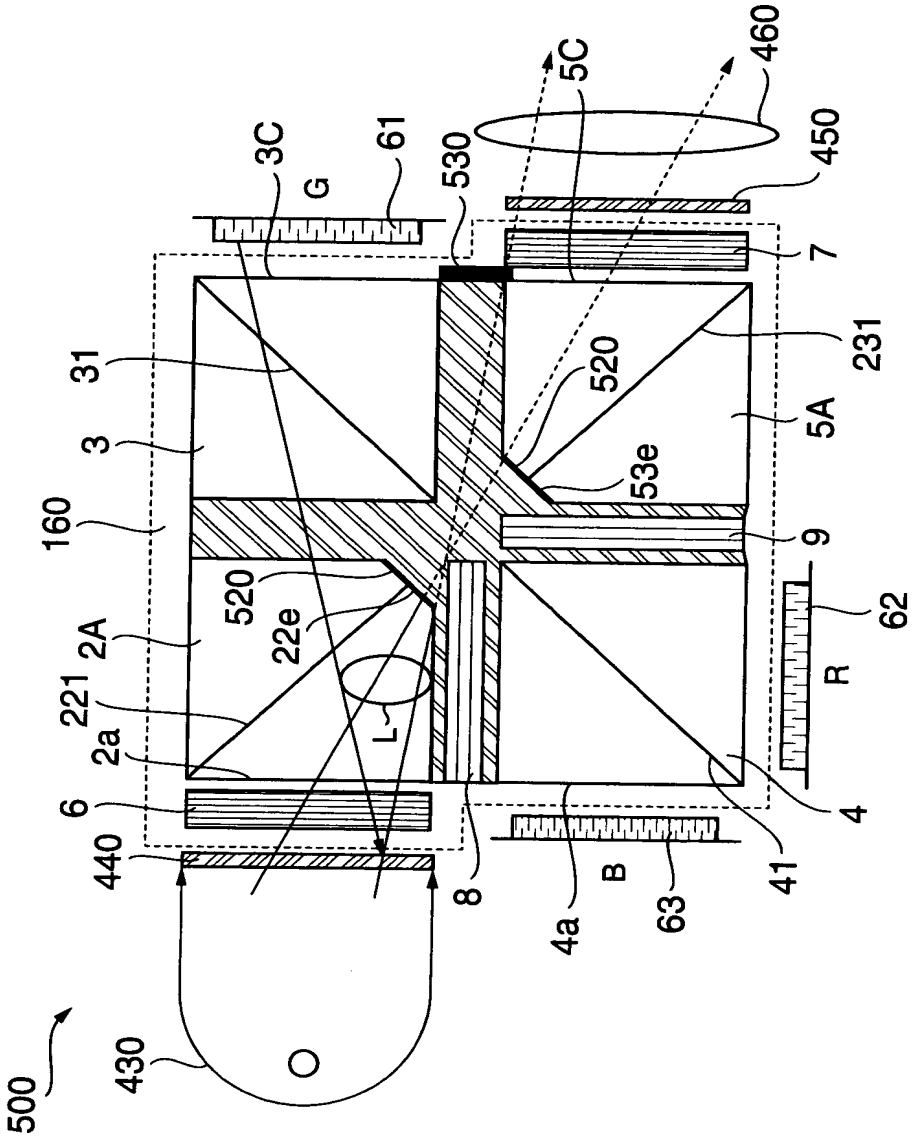
500
430
O
440
6
2a
221
2A
160
3
31
3C
G
61
530
5C
460
450
7
231
520
5A
53e
9
62
R
4
41
B
63
4a
8
L
22e
520

FIG.15

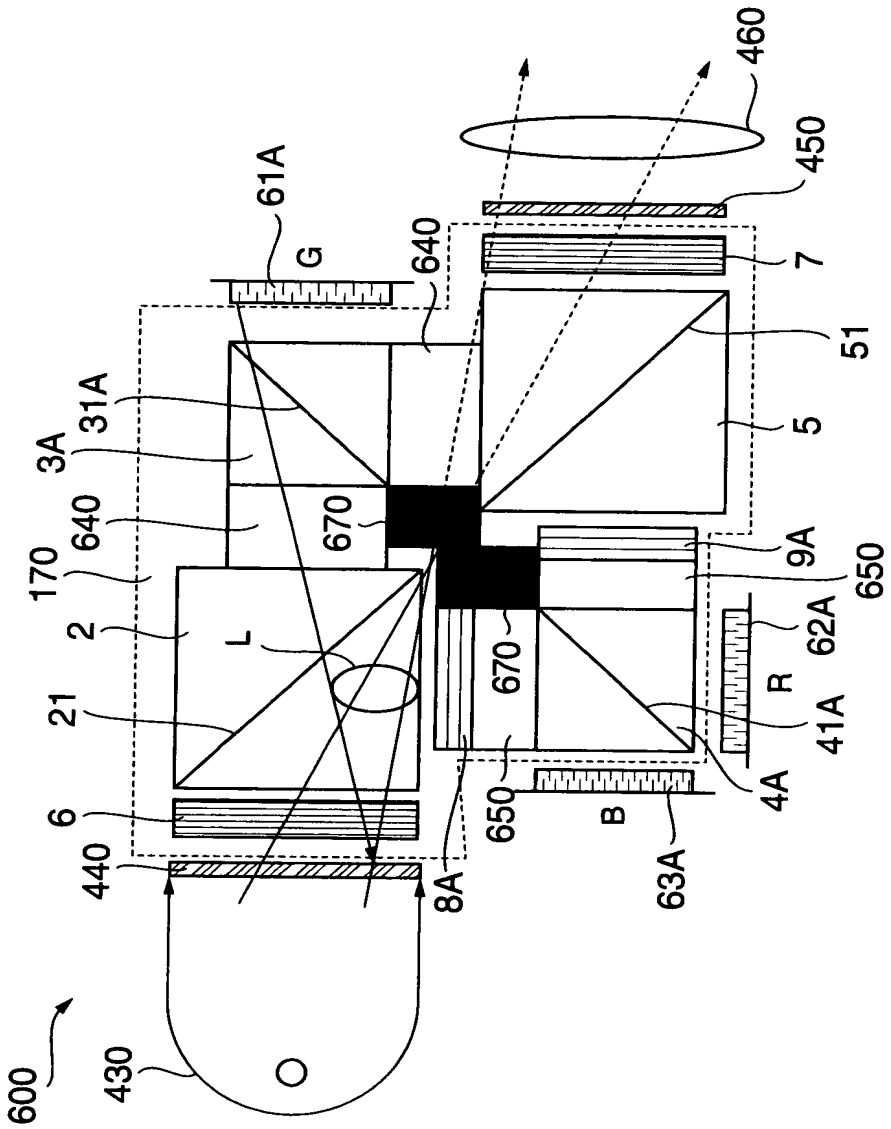
460
450
61A
G
640
7
51
31A
3A
5
640
670
170
9A
650
2
L
62A
670
R
21
41A
6
650
B
4A
440
8A
63A
600
430
O

FIG.16

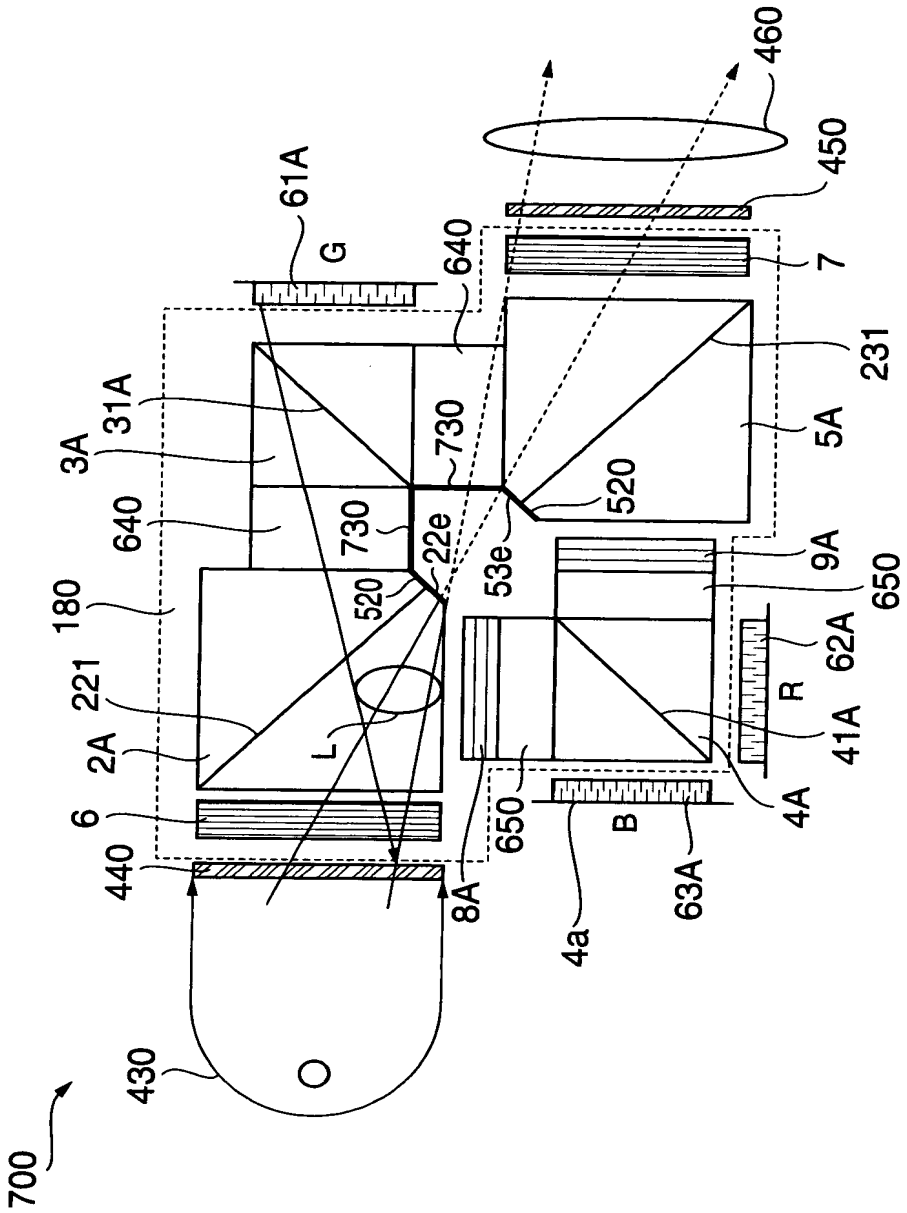
460
450
61A
G
640
7
231
31A
3A
730
5A
520
640
730
22e
53e
9A
650
180
520
62A
221
R
41A
2A
L
6
650
4A
B
440
8A
63A
4a
430
O
700

FIG.17